DRIVER/OPERATOR - PUMPER

Section: 4.2.1 - 4.2.1(A) and 4.2.1(B) Subject area: *Preventive Maintenance*

Standard: 4.2 NFPA 1002, 2003 Edition	**Task:** Perform and document routine test, inspections and servicing functions on specified systems and components.

Conditions: Given a fire department pumping apparatus, and using the provided vehicle inspection checklist (DO1), the candidate shall complete and document an inspection as outlined below, not to exceed 25 minutes:

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Inspect apparatus as they approach looking for signs of damage or leaks				
2	Check batteries for fluid level and corrosion				
3	Check braking system fluid level or for air level and drain air tanks				
4	Check coolant system for fluid levels, leaks, cleanliness				
5	Check electrical system including: warning devices, headlights, running lights, turn signals, and warning lights.				
6	Check fuel level.				
7	Check hydraulic fluids for level and leaks (if applicable).				
8	Check engine oil for fluid level and leaks.				
9	Check tires for pressure and wear, (tread minimum: front 4/32, rear 2/32)				
10	Check steering system for range of motion and excessive looseness				
11	Check engine belts for tightness and wear				
12	Check tools, appliances, equipment, lighting				
13	Check windshield wiper blades/fluid level				
14	Start apparatus, monitor gauges and control devices				
15	Document and correctly report any deficiencies				
16	Completed in 25 minutes or less.				
17	Completed task safely				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

Driver/Operator - Pumper
Vehicle Inspection Checklist – Skill DO1
NFPA 1002, 2003 edition
Objective 4.2.1

Candidate's Name: _____ Date: _____

OK	Needs Service	
☐	☐	Battery(ies)
☐	☐	Braking system
☐	☐	Coolant system
☐	☐	Electrical system
☐	☐	Fuel
☐	☐	Hydraulic fluids
☐	☐	Oil
☐	☐	Tires
☐	☐	Steering system
☐	☐	Belts
☐	☐	Tools, appliances, and equipment

☐ Vehicle is serviceable ☐ Vehicle is **not** serviceable

Comments about items needing service: _____

_____

_____

_____

Evaluator's Name: _____ Date: _____

DRIVER/OPERATOR - PUMPER

Section: 4.3.1 - 4.3.1(A) and 4.3.1(B) Subject area: *Operating a Vehicle*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Drive a fire department pumper safely over a predetermined route on a public way.
Note to evaluator: The host department is responsible for defining the predetermined route to include the prescribed maneuvers listed below. Any situations in the list below that do not exist in the host department's jurisdiction may be omitted.	
Conditions: Given a fire department pumper and a predetermined route, the candidate shall operate the vehicle in a safe manner to accomplish the tasks listed below.	

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Four left turns and four right turns.				
2	A straight section of urban street or rural two-lane road at least a mile in length.				
3	One through-intersection and two intersections where a stop has to be made.				
4	One railroad crossing.				
5	One curve, either left or right.				
6	A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow lane changes.				
7	A downgrade steep enough and long enough to require down-shifting and braking.				
8	An up-grade steep enough and long enough to require gear changing to maintain speed.				
9	One underpass or low clearance bridge or obstacle.				
10					

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.6 - 4.3.6(A) and 4.3.6(B) Subject area: *Operating a Vehicle*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Drive a fire department pumper using defensive driving techniques under simulated emergency conditions, so that control of the vehicle is maintained.

Note to evaluator: It is recommended that this skill be conducted under simulated conditions on a driving track or nonpublic roadway. The host department is responsible for defining the predetermined route to include the prescribed maneuvers listed below.

Conditions: Given a fire department pumper and a predetermined route under simulated emergency conditions, the candidate shall demonstrate defensive driving skills by operating the vehicle in a safe manner to accomplish the tasks listed below.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Ensures vehicle is prepared for departure				
2	Ensures all personnel are seated with safety belts fastened				
3	Utilize emergency lights and siren				
4	Enters traffic in a safe manner				
5	Uses defensive driving techniques				
	a. Maintains safe following distances				
	b. Maintains control of vehicle while accelerating				
	c. Maintains control of vehicle while decelerating				
	d. Maintains control of vehicle while turning				
	e. Maintains reasonable speed for prevailing conditions				
6	Brings apparatus to a safe stop				

Evaluator Comments: _____

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_____ *I acknowledge not passing this skill station.*

Evaluator Signature

_____ _____

Re-Test Evaluator Signature Candidate Signature

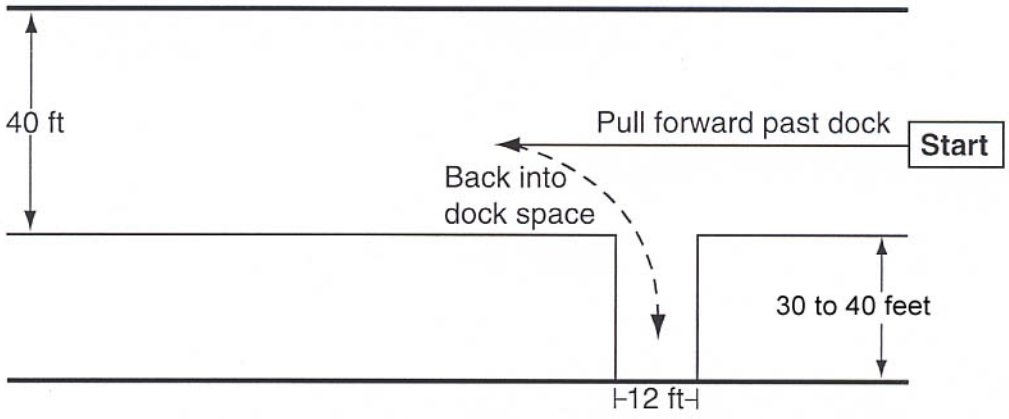
Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.2 – 4.3.2(A) and 4.3.2(B) Subject area: *Driving/Operating*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Back a vehicle from a roadway into restricted space on both the right and left sides of the vehicles. (Alley Dock)

Conditions: Given a fire department pumping apparatus, a spotter for backing, cones, a restricted space 12 feet in width, requiring 90-degree right or left hand turn from the roadway, and a marker placed on the ground to mark where the front left tire should be spotted. The candidate shall back the apparatus into the restricted space without having to stop and pull forward and without crossing over or striking cones. Apparatus to be spotted with rear bumper within 12 inches of the back wall once parked. Task must be completed in 5 minutes.



No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Adjust and use mirrors for backing				
2	Driver/passenger(s) wearing seat belts				
3	Spotter used to back apparatus safely				
4	Completed skill correctly without crossing over or striking cones				
5	Driver spots apparatus within 12 inches of back wall				
6	Complete skill in allotted 5 minute time				
7	Completed task safely				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

_____
Evaluator Signature

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Re-Test Evaluator Signature

_____
Candidate Signature

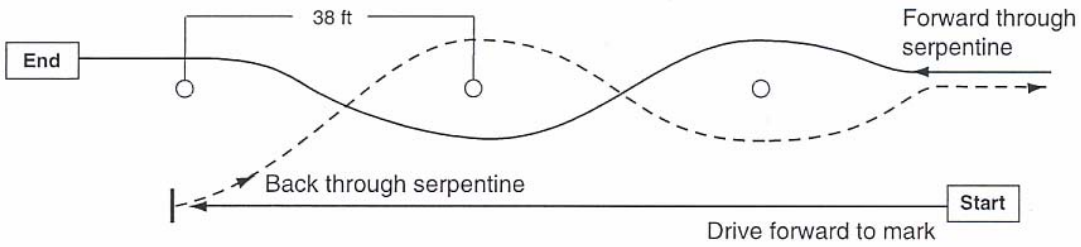
Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.3 – 4.3.3(A) and 4.3.3(B) Subject area: *Driving/Operating*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Maneuver fire department pumper around obstructions on a roadway while moving forward and in reverse. (Serpentine test)

Conditions: Given a fire department pumping apparatus, a spotter for safety while backing, cones and a roadway with obstructions. The candidate shall maneuver the apparatus through the obstructions first in reverse and then in forward without stopping to change the direction of motion and without crossing over or striking cones. The skill must be completed within 5 minutes.



No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Adjust and use mirrors for backing				
2	Driver/passenger wearing seat belts				
3	Spotter used to back apparatus				
4	Completed skill correctly without crossing over or striking cones				
5	Complete skill in allotted 5 minute time.				
6	Completed task safely				

Evaluator Comments: _____

_____

_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

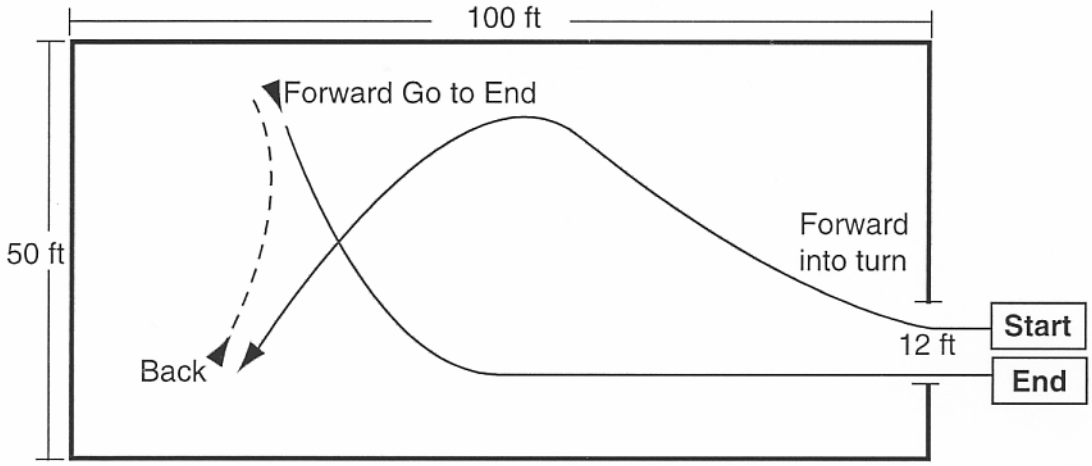
Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.4 – 4.3.4(A) and 4.3.4(B) Subject area: *Driving/Operating*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Turn a fire department pumping apparatus around 180 degrees within a confined space.

Conditions: Given a fire department pumping apparatus, a spotter for backing, cones, and a confined area where the vehicle cannot turn around without stopping and backing up. The candidate shall maneuver the apparatus so the vehicle is turned 180 degrees without passing over or striking the cones, in 5 minutes or less.



No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Adjust and use mirrors for backing				
2	Driver/passengers wearing seat belts				
3	Spotter used to back apparatus				
4	Completed skill correctly without crossing over or striking cones				
5	Completed skill in allotted time of 5 minutes				
6	Completed task safely				

Evaluator Comments: _____

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_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

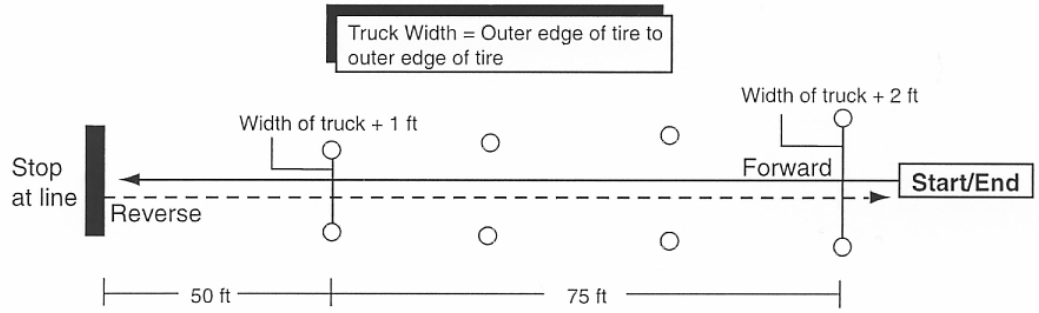
Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.5 - 4.3.5(A) and 4.3.5(B) Subject area: *Driving/Operating*

Standard: 4.3 NFPA 1002, 2003 Edition	**Task:** Maneuver a fire department pumping apparatus in restricted horizontal and vertical clearances. (Diminishing Clearance)

Conditions: Given a fire department pumping apparatus, cones, and a course that requires the candidate to move through an area of restricted horizontal clearance. The candidate shall maneuver the apparatus through the diminishing clearance, accurately judging the ability of the vehicle to pass though the opening, so no cones are struck. The candidate shall provide the height of the vehicle within 6 inches but not less than the actual height when asked. The candidate shall also identify the location of the highest point on the apparatus. The time limit is 5 minutes.



No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Adjusted and used mirrors				
2	Driver/passengers wear seat belts				
3	Drive forward through the cones				
4	After passing the last set of cones, stop the vehicle before crossing the stop barrier				
5	Back the vehicle through the cones to the starting point				
6	Completed skill correctly without striking cones within 5 minutes				
7	Completed task safely				
8	When asked, the student correctly provides the height and location of the tallest point on the apparatus, evaluator to confirm by measuring. Student answer shall be within 6 inches, but NOT less than actual height, so they would strike an object.				

Evaluator Comments: _____

_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 4.3.7 – 4.3.7(A) and 4.3.7(B)
Section: 5.1.1 - 5.1.1(A) and 5.1.1(B)

Subject area: *Routine Operational Tests*

Standard: 4.3 and 5.1 NFPA 1002, 2003 Edition	**Task:** Perform and document the readiness inspection of a fire department pumper.

Conditions: Given a fire department pumping apparatus and using the provided inspection checklist (DO8), the candidate shall conduct and document a readiness inspection in less than 25 minutes.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Check water tank for level and leaks in the system				
2	Check foam tank for level and leaks if applicable				
3	Exercise pump valves				
4	Check and clean intake strainer				
5	Check pump gearbox for proper oil and traces of water				
6	Chock wheels				
7	Start apparatus and place apparatus in pump gear				
8	Operate the pump primer with all pump valves closed. Note vacuum reading.				
9	Operate the changeover valve while operating from tank or other water source (if applicable).				
10	Check packing glands for excessive leaks, if applicable.				
11	Operate the pump pressure control device(s).				
12	Check and operate all fixed systems and equipment (if applicable).				
	a. Generator				
	b. Fixed lighting equipment				
	c. Rescue equipment				
	d. Gas-powered tools				
	e. Air compressor/cascade system				
	f. Other				
13	Document inspection and maintenance performed				
14	Complete skill in allotted 25 minute time frame.				
15	Completed task safely				

Evaluator Comments: _____

_____

_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____
Re-Test Evaluator Signature

_____
Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

Driver/Operator - Pumper
Routine Tests/Inspections Checklist – Skill DO8

NFPA 1002, 2003 edition

Objective 5.1.1

Candidate's Name: _____ Date: _____

OK	Needs Service	
☐	☐	Check water tank for level and leaks in the system
☐	☐	Check foam tank for level and leaks if applicable
☐	☐	Exercise pump valves
☐	☐	Check and clean intake strainer
☐	☐	Check pump gearbox for proper oil and traces of water
☐	☐	Operate the pump primer with all pump valves closed and note vacuum reading
☐	☐	Operate the changeover valve while operating from tank (if applicable)
☐	☐	Check packing glands for excessive leaks, if applicable
☐	☐	Operate the pump pressure control device(s)
☐	☐	Operate all fixed systems and equipment
☐	☐	Document inspection and maintenance preformed

☐ Vehicle is serviceable ☐ Vehicle is **not** serviceable

Comments about items needing service: _____

_____

_____

_____

Evaluator's Name: _____ Date: _____

DRIVER/OPERATOR - PUMPER

Section: 5.2.1 - 5.2.1(A) and 5.2.1(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Using a fire department pumping apparatus, produce an effective fire stream to a hand line utilizing a pressurized water supply.

- **Note to evaluator:** You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; NP = nozzle pressure; APL = appliance loss; and ELV = elevation gain or loss.

Conditions: Given a fire department pumping apparatus, 100 feet of supply hose (2½" or larger), hose clamp, a minimum of 100 feet of 1½" or larger attack line, the appropriate fittings and tools. Firefighters to assist with the hydrant and the hose line. Operating from the booster tank, the candidate shall demonstrate delivery of the correct discharge pressure. The candidate will then demonstrate transitioning to a hydrant supply, while maintaining the correct discharge pressure. The correct discharge pressure must be within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM flowing and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Stop at hydrant, even with or slightly beyond (within 10 feet)				
3	Upon signal from hydrant person, proceeds to fire at a reduced speed				
4	Stops apparatus, sets brake				
5	Engages pump				
6	Chocks wheels				
7	Properly clamps supply hose until needed				
8	Opens tank to pump valve				
9	Checks attack line for placement				
10	Opens to correct discharge and fills attack line				
11	Gradually develop Pump Discharge Pressure in attack line				
12	Set relief valve				
13	Make supply line connection to intake				
14	Release clamp, or signals for water				
15	Transitions from tank water to hydrant supply				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates appropriate discharge pressure, + or – 5 psi.				

Evaluator Comments: _____

_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.1 - 5.2.1(A) and 5.2.1(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Using a fire department pumping apparatus, produce an effective fire stream to a wyed pair of hand lines from a pressure source.

- **Note to evaluator:** You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; NP = nozzle pressure; APL = appliance loss; and ELV = elevation gain or loss.

Conditions: Given a fire department pumping apparatus, 100 feet of supply hose (2½" or larger), hose clamp, a minimum of 100 feet of 2½" hose wyed into a pair of attack lines, a minimum of 100 feet of 1½" or 1¾" line, and the appropriate fittings and tools. Firefighters to assist with the hydrant and the hose lines. Operating from the booster tank, the candidate shall demonstrate delivery of the correct discharge pressure. The candidate will then demonstrate transitioning to a hydrant supply, while maintaining the correct discharge pressure. The correct discharge pressure must be within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM flowing and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Stop at hydrant, even with or slightly beyond (within 10 feet)				
3	Upon signal from hydrant person, proceeds to fire at a reduced speed				
4	Stops apparatus, sets brake				
5	Engages pump				
6	Chocks wheels				
7	Properly clamps supply hose until needed				
8	Opens tank to pump valve				
9	Checks attack line for placement				
10	Opens to correct discharge and fills attack line				
11	Gradually develop pump discharge pressure in attack line				
12	Set relief valve				
13	Make supply line connection to intake				
14	Release clamp, or signals for water				
15	Transitions from tank water to hydrant supply				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates correct discharge pressure, + or – 5 psi				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.1 - 5.2.1(A) and 5.2.1(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Using a fire department pumping apparatus, produce an effective fire stream to a hand line from a draft source.

- **Note to evaluator:** You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; NP = nozzle pressure; APL = appliance loss; and ELV = elevation gain or loss.

Conditions: Given a fire department pumping apparatus, two 10 foot sections of supply hose, draft tank or draft source, single section ladder, a minimum of 100 feet of 1½" or larger attack line, and the appropriate fittings and tools. Firefighters to assist with establishing the draft source and the hose line. The candidate shall demonstrate delivery of the correct discharge pressure from a draft water source, within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Position apparatus at draft location				
3	Stops apparatus, sets parking brake				
4	Chocks wheels				
5	Connect sections of hard suction hose together				
6	Connect strainer to hard suction hose, attach rope				
7	Connect suction hose to apparatus, tighten all connections				
8	Place ladder into static water source if necessary				
9	Lower hose into static source				
10	Engages pump				
11	Primes pump				
12	Checks attack line for placement				
13	Opens correct discharge and fills attack line				
14	Gradually develop pump discharge pressure in attack line				
15	Set relief valve				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates the correct discharge pressure + or- 5 psi				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.1 - 5.2.1(A) and 5.2.1(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Using a fire department pumping apparatus, produce an effective wyed fire stream from a hand line from a draft source.

- **Note to evaluator:** You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; NP = nozzle pressure; APL = appliance loss; and ELV = elevation gain or loss.

Conditions: Given a fire department pumping apparatus, two 10 foot sections of supply hose, draft tank or draft source, a single section ladder, a minimum of 100 feet of 2½" attack line, a wye, 100 feet of 1½ " or larger line, and the appropriate fittings and tools. Firefighters to assist with establishing the draft source and the hose line. The candidate shall demonstrate delivery of the correct discharge pressure from a draft water source, within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM flowing and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Position apparatus at draft location				
3	Stops apparatus, sets parking brake				
4	Chocks wheels				
5	Connect sections of hard suction hose together				
6	Connect strainer to hard suction hose, attach rope				
7	Connect suction hose to apparatus, tighten all connections				
8	Place ladder into static water source if necessary				
9	Lower hose into static source				
10	Engages pump				
11	Primes pump				
12	Checks attack line for placement				
13	Opens correct discharge and fills attack line				
14	Gradually develop pump discharge pressure in attack line				
15	Set relief valve				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates correct discharge pressure + or – 5 psi				

Evaluator Comments: _____

_____

_____

I acknowledge not passing this skill station.

_____
Evaluator Signature

_____ _____
Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.1 - 5.2.1(A) and 5.2.1(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Produce an effective master fire stream using a fire department pumping apparatus from a pressurized water supply source.

- **Note to evaluator:** You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; NP = nozzle pressure; APL = appliance loss; and ELV = elevation gain or loss.

Conditions: Given a fire department pumping apparatus, 100 feet of supply hose (2½" or larger), hose clamp, a minimum of 100 feet of 2½" or larger attack line, and the appropriate fittings and tools. Firefighters to assist with the hydrant and to assist with set up of a master stream device. Operating from the booster tank, the candidate shall demonstrate delivery of the correct discharge pressure. The candidate will then demonstrate transitioning to a hydrant supply, while maintaining the correct discharge pressure. The discharge pressure must be within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Stop at hydrant, even with or slightly beyond (within 10 feet)				
3	After signaled from hydrant person, proceeds to fire at a reduced speed				
4	Stops apparatus, sets brake				
5	Engages pump				
6	Chocks wheels				
7	Properly clamps supply hose until needed				
8	Opens tank to pump valve				
9	Set-up master stream device, a minimum of 50 feet from apparatus using a portable device. Check line deployment to master stream device.				
10	Opens to correct discharge and fills attack line				
11	Gradually develop pump discharge pressure in attack line				
12	Set relief valve				
13	Make Supply line connection to intake				
14	Release clamp, or signals for water				
15	Transitions from tank water to hydrant supply				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates correct discharge pressure + or – 5 psi				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

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Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.2 - 5.2.2(A) and 5.2.2(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Establish a relay pumping evolution and produce an effective water supply.

- **Note to evaluator:** Students shall be within 5 psi, either side of the correct answer. You should calculate the engine discharge pressure using EP = (CLQ^2)+ AP + or – ELV. C = Coefficient; L = Length /100; Q = GPM/100; AP = attack engine pressure; ELV = elevation.

Conditions: Given a relay pumping evolution and the length and size of relay line. Operating from the booster tank of the relay pumper, the candidate shall establish and maintain an effective water supply relay to the attack pumper. The candidate will then demonstrate transitioning to a hydrant supply, while maintaining the correct discharge pressure. The correct discharge pressure must be within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM, the attack engine intake pressure, and any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Position apparatus at source location				
3	Chocks wheels				
4	Place pump into operation.				
5	Properly clamps supply hose until needed				
6	Open tank to pump valve.				
7	Establish water supply to relay pumper intake.				
8	Ensure supply lines from source pumper are connected to attack pumper.				
9	Upon evaluator's command, open discharge and begin relaying water to attack engine.				
10	Transitions between internal water source and external source.				
11	Gradually increase pressure until desired discharge pressure is attained.				
12	Set relief valve				
13	Monitor apparatus cooling system to keep operating in manufacture's recommended range.				
14	Complete skill in a safe manner, without water hammer				
15	Prevents pump cavitation				
16	Candidate calculates correct discharge pressure + or – 5 psi.				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

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Re-Test Evaluator Signature Candidate Signature

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DRIVER/OPERATOR - PUMPER

Section: 5.2.3 - 5.2.3(A) and 5.2.3(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Produce a foam fire stream so that properly proportioned foam is delivered. (Used the competency that is appropriate for the type of foam equipment that the agency has)

Conditions: Given a fire department pumping apparatus, foam concentrate, foam eductors or apparatus mounted foam system, foam nozzle and other related equipment, hoseline, and a hose team. The candidate will assemble a foam layout, appropriate for the type of foam being used, with an eductor or proportioner connected according to manufacturer's specifications (if applicable). The candidate will deliver properly proportioned foam and clean the system when skill is complete. Skill to be completed in a safe manner without water hammer.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Verify correct gallonage eductor (or proportioner) and nozzle are being used (if applicable).				
1	Set concentrate percentage on eductor (or proportioner)				
2	Assemble a foam layout, appropriate for the type of foam being used, with an eductor or proportioner connected according to manufacturer's specifications (if applicable).				
3	Set appropriate pump pressure for foam layout				
4	Deliver properly proportioned foam				
5	Clean system when skill is complete				
6	Complete skill in a safe manner, without water hammer.				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

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Re-Test Evaluator Signature Candidate Signature

Note to Candidates and Evaluators: Candidates must sign for 2nd attempt failures. By this signature the candidate is notified that s/he has failed this skill and will be required to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of this skill plus one additional skill from the NFPA 1002 Standard.

DRIVER/OPERATOR - PUMPER

Section: 5.2.4 - 5.2.4(A) and 5.2.4(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Supply water to a fire department standpipe system, given specific system information and a fire department pump, so that water is supplied to the system at the correct volume and pressure.

Note to evaluator: Students shall be within 5 psi, either side of the correct answer. You should calculate the engine discharge pressure using EP = (CLQ^2)+NP+APL+ or – ELV

- C = Coefficient; L = Length /100; Q = GPM/100

Conditions: Given a fire department pumping apparatus, 100 feet of supply hose (2½" or larger), hose clamp, a minimum of 100 feet of 2½" or larger attack line, the appropriate fittings, tools and a standpipe system (or simulated system). Firefighters to assist with the hydrant and the connection to the building's standpipe system. The candidate shall demonstrate delivery of the correct discharge pressure, within 5 psi, using the algebraic formula of CLQ^2. Evaluators shall specify the GPM flowing, and type of nozzle, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Stop at hydrant, even with or slightly beyond (within 10 feet)				
3	Upon signal from hydrant person, proceeds to fire at a reduced speed				
4	Stops apparatus, sets brake				
5	Engages pump				
6	Chocks wheels				
7	Properly clamps supply hose until needed				
8	Opens tank to pump valve				
9	Assists in connecting to the building's standpipe system				
10	Opens to correct discharge(s) and fills standpipe supply line(s)				
11	Gradually develop pump discharge pressure in supply line(s)				
12	Set relief valve				
13	Make supply line connection, from water source to apparatus intake				
14	Release clamp, or signals for water				
15	Transitions from tank water to hydrant supply				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates correct discharge pressure + or – 5 psi				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

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Re-Test Evaluator Signature Candidate Signature

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DRIVER/OPERATOR - PUMPER

Section: 5.2.4 - 5.2.4(A) and 5.2.4(B) Subject area: *Operations*

Standard: 5.2 NFPA 1002, 2003 Edition	**Task:** Supply water to a fire department sprinkler systems, given specific system information and a fire department pump, so that water is supplied to the system at the correct volume and pressure.

Conditions: Given a fire department pumping apparatus, 100 feet of supply hose (2½" or larger), hose clamp, a minimum of 100 feet of 2½" or larger attack line, the appropriate fittings, tools, and a sprinkler system (or simulated system). Firefighters to assist with the hydrant and the connection to the building's standpipe system. Candidate shall demonstrate delivery of the correct discharge pressure, + or – 5 psi. Evaluators shall specify the GPM flowing, plus any other variable normally encountered by a pump operator, such as elevation.

No.	**Task Steps**	First Test		Second Test	
		Pass	Fail	Pass	Fail
1	Driver/passengers wearing seat belts				
2	Stop at hydrant, even with or slightly beyond (within 10 feet)				
3	Upon signal from hydrant person, proceeds to fire at a reduced speed				
4	Stops apparatus, sets brake				
5	Engages pump				
6	Chocks wheels				
7	Properly clamps supply hose until needed				
8	Opens tank to pump valve				
9	Assists in connecting to the building's sprinkler system				
10	Opens to correct discharge(s) and fills sprinkler supply line(s)				
11	Gradually develop pump discharge pressure in supply line(s)				
12	Set relief valve				
13	Make Supply line connection, from water source to apparatus intake				
14	Release clamp, or signals for water				
15	Transitions from tank water to hydrant supply				
16	Monitor discharge pressure				
17	Completes skill in a safe manner, and without creating a water hammer				
18	Candidate calculates correct discharge pressure + or – 5 psi				

Evaluator Comments: _____

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I acknowledge not passing this skill station.

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Evaluator Signature

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